

Radioactivity found in Swiss lake near nuclear plant

July 14 2013



The Muehleberg nuclear power plant in Switzerland, on May 25, 2011. Scientists have discovered a radioactive substance in sediment under a Swiss lake used for drinking water and situated near a nuclear plant, according to the *Le Matin Dimanche* weekly.

Scientists have discovered a radioactive substance in sediment under a Swiss lake used for drinking water and situated near a nuclear plant, the *Le Matin Dimanche* weekly reported Sunday.

While scientists cited in the report stressed there was no danger to human health, the discovery raises concerns about [safety practices](#) and a lack of transparency at the Muehleberg [nuclear plant](#) in northwestern Switzerland.

The plant is believed to have caused a spike in cesium 137 found in the sediment of Lake Biel and dating back to 2000 through the discharge of [contaminated waste](#) water into the Aar river that feeds into the lake, about 20 kilometres (12 miles) downstream, the weekly reported.

Geologists from Geneva University happened upon the spike while working on an unrelated research project in 2010, and chemists in the northern canton of Basel recently verified the findings, it said.

The Muehleberg plant is permitted to discharge water with very low levels of radioactivity subject to strict controls several times a year, according to Le Matin Dimanche.

Politicians and environmentalists however expressed outrage Sunday that the plant and nuclear inspectors had provided no information about the higher levels of [cesium 137](#) released more than a decade ago into a lake that provides 68 percent of the drinking water to the nearby town of Biel.

"No one ever told me that there were abnormally high concentrations in the lake," Hans Stoekli, who served as Biel mayor from 1990 to 2010, told the paper, insisting that in light of the use of the lake for drinking water "the plant should have alerted us even in the case of minimal risk."

Environmental group Greenpeace voiced dismay at the news, urging the [public prosecutor](#) in the canton of Bern, where Biel and the Muehleberg plant are located, to investigate.

The group, which has long called for the plant's closure, also questioned in a statement how the Swiss Federal Nuclear Safety Inspectorate could have either missed the higher radioactive levels or decided not to inform decision makers or the public about them.

The Muehleberg plant, which came online in 1972, is 17 kilometres (11 miles) west of the Swiss capital Bern.

In the wake of the 2011 Fukushima disaster in Japan, the Swiss parliament approved a phase-out for the country's five atomic power plants by 2034.

© 2013 AFP

Citation: Radioactivity found in Swiss lake near nuclear plant (2013, July 14) retrieved 20 April 2024 from <https://phys.org/news/2013-07-radioactivity-swiss-lake-nuclear.html>

This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.